



BIOLOGY NMDCAT EARLIER PREP

PMC UNIT WISE TEST Unit-3

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03418729745(WhatsApp Groups)

TOPICS:

- ✓ Bioenergetics
 - ✓ Biodiversity/Variety of Life

Q.1 The source of oxygen during photosynthesis is:

A. CO₂ B.G3P
C. H₂O D.H₂S

Q.2 All are products of light reactions except:

A. ATP B.C₆H₁₂O₆
C. O₂ D. NADPH

Q.3 Diversity among photosystems is due to:

A. Carotenes B. Chlorophyll 'b'
C. Chlorophyll 'a' D. Xanthophylls

Q.4 Ultimate source of energy for the formation of glucose through Calvin cycle is:

A. NADH B. NADPH₂
C. ATP D. Solar energy

Q.5 All of the following are involved in cyclic electron flow during light reaction except:

A. Plastocyanin B. Primary electron acceptor
C. Plastoquinone D. Ferredoxin

Q.6 How many ATPs are required for the operation of one Calvin cycle?

A.3 B.6
C. 9 D.18

Q.7 Basic structure of all chlorophylls comprises:

A. Cytochromes B. Porphyrins
C. Flavoproteins D. Plastocyanins

Q.8 At the end of the respiratory chain, electrons, protons and oxygen combine to form:

A. ATP B. Water
C. CO₂ D. Pyruvate

Q.9 The fixation of CO₂ in Calvin cycle requires which of the following acceptor molecule?

A. Aldo-pentose B. Keto-pentose
C. Aldo-triose D. Keto-triose

Q.10 Which is the correct order of energy transfer from accessory pigments to main photosynthetic pigment?

A. Carotenoids → chlorophyll a → chlorophyll b
B. Chlorophyll a → carotenoids → chlorophyll b
C. Carotenoids → chlorophyll b → chlorophyll a
D. Chlorophyll b → carotenoids → chlorophyll a

Q.11 ATP consumption and production are associated with:

A. Glycolysis B. Krebs cycle
C. Electron transport chain D. Pyruvic acid oxidation

Q.12 Correct sequence of utilization of biomolecules for the production of energy in our body is:

A. Carbohydrates → Lipids → Proteins B. Carbohydrates → Proteins → Lipids
C. Lipids → Proteins → Carbohydrates D. Proteins → Lipids → Carbohydrates

Q.13 In oxidative phosphorylation, cytochrome a is oxidized by:



- A. Co enzyme Q B. Cytochrome 'b'
C. Cytochrome 'a₃' D. Cytochrome 'c'
- Q.14** Total number of CO₂ molecules released by oxidation of glucose through Krebs cycle:
A.2 B.3
C.4 D. 6

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Q.15 Which of the following correctly represents the end product (net) of glycolysis?

	ATP	NADH	H ₂ O
A.	4	4	4
B.	2	2	2
C.	4	2	4
D.	2	4	2

Q.16 All of the following are associated with light reaction except:

- A. Breakdown of water
- B. Fixation of CO₂
- C. Excitation of electrons
- D. Formation of NADPH

Q.17 A process that uses membranes to couple redox reactions to ATP synthesis is called:

- A. Osmosis
- B. Active transport
- C. Chemiosmosis
- D. Krebs cycle

Q.18 It structurally resembles with haeme portion of haemoglobin:

- A. Porphyrin
- B. Phytol
- C. Pyrrole
- D. Phytochrome

Q.19 Most common type of cellular respiration in our muscles is:

- A. Alcoholic fermentation
- B. Aerobic respiration
- C. Lactic acid fermentation
- D. Anaerobic respiration

Q.20 CO₂ in atmosphere remains relatively constant because:

- A. It is released during respiration and is used up in photosynthesis
- B. It is converted into carbohydrates during photosynthesis
- C. It is converted into CaCO₃
- D. Bacteria use extra CO₂ in atmosphere

Q.21 Photosystems occur in:

- A. Stroma
- B. Chloroplast envelope
- C. Grana
- D. Thylakoid interior space

Q.22 During Aerobic respiration, protons are diffused from:

- A. Matrix to inter-membranous space
- B. Inter-membranous space to matrix
- C. Stroma to thylakoid lumen
- D. Thylakoid lumen to stroma

Q.23 Dihydroxyacetone phosphate is an isomer of:

- A. RuP
- B. PGA
- C.G3P
- D. PEP

Q.24 Most efficient wavelength to carry out photosynthesis is of:

- A. Green colour
- B. Blue colour
- C. Red colour
- D. Orange colour

Q.25 At 500 nm, most of the light is absorbed by:

- A. Chlorophyll a
- B. Carotenoids
- C. Chlorophyll b
- D. Chlorophyll c

Q.26 Which of the following is intermediate in carbohydrates and fats metabolism?

- A. CO₂
- B. Acetyl Co-A
- C. Pyruvic acid
- D.G3P

Q.27 In Krebs cycle, the H atoms removed at succinate level, are accepted by:

- A.FAD
- B.ADP
- C. NADP
- D.NAD

Q.28 Number of which of the following is same in chlorophyll a and b?

- A. C and H
- B. C and O
- C. H and O
- D. C and N

Q.29 Increased level of ATP during aerobic respiration can inhibit the functioning of:

- A. Hexokinase
- B. Pyruvate decarboxylase
- C. Citrate synthase
- D. Phosphofructokinase

Q.30 Both respiration and photosynthesis require:

- A. Organic fuel
- B. Sunlight
- C. Cytochromes
- D.C-C energy

Q.31 Most of Krebs cycle's enzymes are located in/at

- A. Mitochondrial matrix
- B. Cristae
- C. Outer mitochondrial membrane
- D. Inter-membranous space

Q.32 Yeast cell respires through:

- A. Aerobically only
- B. Both aerobically and anaerobically
- C. Anaerobically only
- D. In a unique way



- Q.33** Calvin cycle is commonly known as:
- A. C₃ pathway
 - B. C₄ pathway
 - C. Glucose pathway
 - D. Aerobic cycle
- Q.34** Stage till which aerobic respiration and fermentation are same:
- A. DAP formation
 - B. 3PG formation
 - C. Pyruvate formation
 - D. Acetyl CoA formation
- Q.35** Which one of these is a '5C' compound?
- A. Succinate
 - B. α -ketoglutarate
 - C. Citrate
 - D. Malate
- Q.36** Which of the following is an acellular organism?
- A. Virus
 - B. Porifera
 - C. Cnidarians
 - D. Bacteria
- Q.37** Which of the following statement about viruses is correct?
- A. They infect all forms of life
 - B. Viruses contain both DNA and RNA
 - C. Nucleic acid core is known as capsid
 - D. They possess endo-membranous system
- Q.38** It is found in bacteriophages:
- A. Reverse transcriptase
 - B. Lysosome
 - C. Peptidase
 - D. Lysozyme
- Q.39** A structural component essential for all viruses is:
- A. Envelope
 - B. Spikes
 - C. Capsid
 - D. DNA
- Q.40** Who discovered that the agent which caused tobacco mosaic disease was filterable?
- A. Louis Pasteur
 - B. Charles Chamberland
 - C. Ivanowski
 - D. Stanley
- Q.41** A bacteriophage can be recognized by its:
- A. Tadpole shape
 - B. Hexagonal shape
 - C. Rhomboidal shape
 - D. Spherical shape
- Q.42** Sometimes when a virus attacks a bacterium, neither the virus multiplies, nor the bacterium dies. This phenomenon is called as:
- A. Adsorption
 - B. Lysogeny
 - C. Assimilation
 - D. Lysis
- Q.43** Vascular lesions in epithelial layer of ectodermal tissue and raised fluid filled vesicles are formed in _____ and _____ respectively:
- A. Measles and Small pox
 - B. Mumps and Measles
 - C. Herpes simplex and Small pox
 - D. Rabies and Herpes simplex
- Q.44** It has been totally eradicated from world through vaccination:
- A. AIDS
 - B. Small pox
 - C. Poliomyelitis
 - D. Measles
- Q.45** Human Immune Deficiency Virus is:
- A. dsRNA enveloped virus
 - B. dsRNA non-enveloped virus
 - C. ssRNA enveloped virus
 - D. ssRNA non-enveloped virus
- Q.46** Retroviral DNA incorporated into host DNA is called:
- A. Prophage
 - B. Prions
 - C. Provirus
 - D. Virion
- Q.47** HIV decreases natural immunity of the body by:
- A. Destroying immunoglobulins
 - B. Destroying leukocytes
 - C. Attacking plasma clone cells
 - D. Attacking T lymphocytes
- Q.48** Viroid causes:
- A. Hepatitis 'A'
 - B. Hepatitis 'B'
 - C. Hepatitis 'D'
 - D. Hepatitis 'E'
- Q.49** Lysozyme is used to dissolve:
- A. Viral capsid
 - B. Bacterial cell membrane
 - C. Bacterial cell wall
 - D. Bacterial envelope
- Q.50** Lower limb paralysis may be caused during the course of:
- A. Small pox
 - B. Mumps
 - C. Polio
 - D. HIV



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• Biology Key

1 - C	14 - C	27 - A	40 - C
2 - B	15 - B	28 - D	41 - A
3 - C	16 - B	29 - D	42 - B
4 - D	17 - C	30 - C	43 - C
5 - C	18 - A	31 - A	44 - B
6 - C	19 - B	32 - B	45 - C
7 - B	20 - A	33 - A	46 - C
8 - B	21 - C	34 - C	47 - D
9 - B	22 - B	35 - B	48 - C
10 - C	23 - C	36 - A	49 - C
11 - A	24 - C	37 - A	50 - C
12 - A	25 - B	38 - D	
13 - C	26 - D	39 - C	